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45 46

RAW SEQUENCE LISTING PATENT APPLICATION US/08/884,073

DATE: 12/17/97 TIME: 10:55:35

INPUT SET: S22123.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

ENTERE

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1
                                       SEQUENCE LISTING
 2
 3
            General Information
     (1)
 4
             (i) APPLICANT: Hawkins, Phillip R.
 5
 6
                                           Murry, Lynn E.
 7
 8
            (ii) TITLE OF INVENTION: A NOVEL TISSUE INHIBITOR OF
 9
                                          METALLOPROTEINASES
10
11
            (iii) NUMBER OF SEQUENCES: 5
12
13
            (iv) CORRESPONDENCE ADDRESS:
14
              (A) ADDRESSEE: Incyte Pharmaceuticals, Inc.
15
              (B) STREET: 3174 Porter Drive
16
              (C) CITY: Palo Alto
17
              (D) STATE: CA
18
              (E) COUNTRY: US
19
              (F) ZIP: 94304
20
21
            (v) COMPUTER READABLE FORM:
22
              (A) MEDIUM TYPE: Diskette
23
              (B) COMPUTER: IBM Compatible
24
              (C) OPERATING SYSTEM: DOS
25
              (D) SOFTWARE: FastSEQ Version 1.5
26
27
            (vi) CURRENT APPLICATION DATA:
28
              (A) APPLICATION NUMBER: 08/884,073
29
              (B) FILING DATE: 27-JUN-1997
30
              (C) CLASSIFICATION: 514
31
32
            (vii) PRIOR APPLICATION DATA:
33
              (A) APPLICATION NUMBER: 08/588,163
34
              (B) FILING DATE: 18-JAN-1996
35
36
            (viii) ATTORNEY/AGENT INFORMATION:
37
              (A) NAME: Luther, Barbara J.
38
              (B) REGISTRATION NUMBER: 33,954
39
              (C) REFERENCE/DOCKET NUMBER: PF-0053
40
41
            (ix) TELECOMMUNICATION INFORMATION:
42
              (A) TELEPHONE: 415-855-0555
43
              (B) TELEFAX: 415-852-0195
44
              (C) TELEX:
```

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RAW SEQUENCE LISTING PATENT APPLICATION US/08/884,073

TIME: 10:55:40

DATE: 12/17/97

	INPUT SET: S22123.raw
47	(2) INFORMATION FOR SEQ ID NO:1:
48	
49	(i) SEQUENCE CHARACTERISTICS:
50	(A) LENGTH: 675 base pairs
51 52	(B) TYPE: nucleic acid
5 <i>2</i> 53	(C) STRANDEDNESS: single
54	(D) TOPOLOGY: linear
55	(ii) MOLECULE TYPE: cDNA
56	(11) Moddoodd IIId. Oblin
57	(vii) IMMEDIATE SOURCE:
58	(A) LIBRARY: METALLOPROTEINASES
59	(B) CLONE: 589345
60	
61	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
62	
63	ATGCCTGGGA GCCCTCGGCC CGCGCCAAGC TGGGTGCTGT TGCTGCGGCT GCTGGCGTTG 60
64	CTGCGGCCCC CGGGGCTGGG TGAGGCATGC AGCTGCGCCC CGGCGCACCC TCAGCAGCAC 120
65	ATCTGCCACT CGGCACTTGT GATTCGGGCC AAAATCTCCA GTGAGAAGGT AGTTCCGGCC 180
66	AGTGCAGACC CTGCTGACAC TGAAAAAATG CTCCGGTATG AAATCAAACA GATAAAGATG 240
67	TTCAAAGGGT TTGAGAAAGT CAAGGATGTT CAATATATCT ATACGCCTTT TGACTCTTCC 300
68	CTCTGTGGTG TGAAACTAGA AGCCAACAGC CAGAAGCAGT ATCTCTTGAC TGGTCAGGTC 360
69 70	CTCAGTGATG GAAAAGTCTT CATCCATCTG TGCAACTACA TCGAGCCCTG GGAGGACCTG 420
70 71	TCCTTGGTGC AGAGGGAAAG TCTGAATCAT CACTACCATC TGAACTGTGG CTGCCAAATC ACCACCTGCT ACACAGTACC CTGTACCATC TCGGCCCCTA ACGAGTGCCT CTGGACAGAC 540
72	
73	TGGCTGTTGG AACGAAAGCT CTATGGTTAC CAGGCTCAGC ATTATGTCTG TATGAAGCAT 600 GTTGACGGCA CCTGCAGCTG GTACCGGGGC CACCTGCCTC TCAGGAAGGA GTTTGTTGAC 660
74	ATCGTTCAGC CCTAG 675
75	nioritorio corre
76	
77	(2) INFORMATION FOR SEQ ID NO:2:
78	2
79	(i) SEQUENCE CHARACTERISTICS:
80	(A) LENGTH: 224 amino acids
81	(B) TYPE: amino acid
82	(C) STRANDEDNESS: single
83	(D) TOPOLOGY: linear
84	
85	(ii) MOLECULE TYPE: peptide
86 87	(wii) TAMEDIAME COUDGE.
88	(vii) IMMEDIATE SOURCE: (A) LIBRARY: METALLOPROTEINASES
89	(B) CLONE: 589345
90	(b) Chomb. 309343
91	
92	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
93	, , <u>u</u>
94	Met Pro Gly Ser Pro Arg Pro Ala Pro Ser Trp Val Leu Leu Leu Arg
95	1 5 10 15
96	Leu Leu Ala Leu Leu Arg Pro Pro Gly Leu Gly Glu Ala Cys Ser Cys
97	20 25 30
98	Ala Pro Ala His Pro Gln Gln His Ile Cys His Ser Ala Leu Val Ile
99	35 40 45

RAW SEQUENCE LISTING PATENT APPLICATION US/08/884,073

DATE: 12/17/97 TIME: 10:55:45 INPUT SET: S22123.raw ala Asp Pro

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Arg Ala Lys Ile Ser Ser Glu Lys Val Val Pro Ala Ser Ala Asp Pro
100
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101
      Ala Asp Thr Glu Lys Met Leu Arg Tyr Glu Ile Lys Gln Ile Lys Met
102
                           70
103
      Phe Lys Gly Phe Glu Lys Val Lys Asp Val Gln Tyr Ile Tyr Thr Pro
104
                                           90
105
      Phe Asp Ser Ser Leu Cys Gly Val Lys Leu Glu Ala Asn Ser Gln Lys
106
107
                                       105
                                                            110
      Gln Tyr Leu Leu Thr Gly Gln Val Leu Ser Asp Gly Lys Val Phe Ile
108
                                                        125
                                   120
109
              115
      His Leu Cys Asn Tyr Ile Glu Pro Trp Glu Asp Leu Ser Leu Val Gln
110
                                                    140
                               135
111
      Arg Glu Ser Leu Asn His His Tyr His Leu Asn Cys Gly Cys Gln Ile
112
113
                           150
      Thr Thr Cys Tyr Thr Val Pro Cys Thr Ile Ser Ala Pro Asn Glu Cys
114
115
                       165
                                            170
      Leu Trp Thr Asp Trp Leu Leu Glu Arg Lys Leu Tyr Gly Tyr Gln Ala
116
                                       185
117
                   180
      Gln His Tyr Val Cys Met Lys His Val Asp Gly Thr Cys Ser Trp Tyr
118
                                                        205
119
                                   200
      Arg Gly His Leu Pro Leu Arg Lys Glu Phe Val Asp Ile Val Gln Pro
120
121
                               215
                                                    220
122
123
                (2) INFORMATION FOR SEQ ID NO:3:
124
125
             (i) SEQUENCE CHARACTERISTICS:
126
               (A) LENGTH: 220 amino acids
127
               (B) TYPE: amino acid
128
               (C) STRANDEDNESS: single
129
130
               (D) TOPOLOGY: linear
131
             (ii) MOLECULE TYPE: peptide
132
133
             (vii) IMMEDIATE SOURCE:
134
                    (A) LIBRARY: METALLOPROTEINASES
135
                    (B) CLONE: TIMP-2
136
137
138
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
139
140
      Met Gly Ala Ala Arg Thr Leu Arg Leu Ala Leu Gly Leu Leu
141
142
       Leu Ala Thr Leu Leu Arg Pro Ala Asp Ala Cys Ser Cys Ser Pro Val
143
144
                                        25
       His Pro Gln Gln Ala Phe Cys Asn Ala Asp Val Val Ile Arg Ala Lys
145
                                   40
146
       Ala Val Ser Glu Lys Glu Val Asp Ser Gly Asn Asp Ile Tyr Gly Asn
147
148
       Pro Ile Lys Arg Ile Gln Tyr Glu Ile Lys Gln Ile Lys Met Phe Lys
149
                           70
                                                75
150
       Gly Pro Glu Lys Asp Ile Glu Phe Ile Tyr Thr Ala Pro Ser Ser Ala
151
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RAW SEQUENCE LISTING PATENT APPLICATION US/08/884,073

DATE: 12/17/97

TIME: 10:55:51 INPUT SET: S22123.raw Val Cys Gly Val Ser Leu Asp Val Gly Gly Lys Lys Glu Tyr Leu Ile Ala Gly Lys Ala Glu Gly Asp Gly Lys Met His Ile Thr Leu Cys Asp Phe Ile Val Pro Trp Asp Thr Leu Ser Thr Thr Gln Lys Lys Ser Leu Asn His Arg Tyr Gln Met Gly Cys Glu Cys Lys Ile Thr Arg Cys Pro Met Ile Pro Cys Tyr Ile Ser Ser Pro Asp Glu Cys Leu Trp Met Asp Trp Val Thr Glu Lys Asn Ile Asn Gly His Gln Ala Lys Phe Phe Ala Cys Ile Lys Arg Ser Asp Gly Ser Cys Ala Trp Tyr Arg Gly Ala Ala Pro Pro Lys Gln Glu Phe Leu Asp Ile Glu Asp Pro (2) INFORMATION FOR SEQ ID NO:4: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: peptide (vii) IMMEDIATE SOURCE: (A) LIBRARY: METALLOPROTEINASES (B) CLONE: TIMP-3 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Thr Pro Trp Leu Gly Leu Ile Val Leu Leu Gly Ser Trp Ser Leu Gly Asp Trp Gly Ala Glu Ala Cys Thr Cys Ser Pro Ser His Pro Gln Asp Ala Phe Cys Asn Ser Asp Ile Val Ile Arg Ala Lys Val Val Gly Lys Lys Leu Val Lys Glu Gly Pro Phe Gly Thr Leu Val Tyr Thr Ile Lys Gln Met Lys Met Tyr Arg Gly Phe Thr Lys Met Pro His Val Gln Tyr Ile His Thr Glu Ala Ser Glu Ser Leu Cys Gly Leu Lys Leu Glu Val Asn Lys Tyr Gln Tyr Leu Leu Thr Gly Arg Val Tyr Asp Gly Lys

Met Tyr Thr Gly Leu Cys Asn Phe Val Glu Arg Trp Asp Gln Leu Thr

Leu Ser Gln Arg Lys Gly Leu Asn Tyr Arg Tyr His Leu Gly Cys Asn

RAW SEQUENCE LISTING PATENT APPLICATION US/08/884,073

DATE: 12/17/97

TIME: 10:55:56 INPUT SET: S22123.raw Cys Lys Ile Lys Ser Cys Tyr Tyr Leu Pro Cys Phe Val Thr Ser Lys Asn Glu Cys Leu Trp Thr Asp Met Leu Ser Asn Phe Gly Tyr Pro Gly Tyr Gln Ser Lys His Tyr Ala Cys Ile Arg Gln Lys Gly Gly Tyr Cys Ser Trp Tyr Arg Gly Trp Ala Pro Pro Asp Lys Ser Ile Ile Asn Ala Thr Asp Pro (2) INFORMATION FOR SEQ ID NO:5: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 207 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: peptide (vii) IMMEDIATE SOURCE: (A) LIBRARY: METALLOPROTEINASES (B) CLONE: TIMP-1 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5: Met Ala Pro Phe Glu Pro Leu Ala Ser Gly Ile Leu Leu Leu Trp Leu Ile Ala Pro Ser Arg Ala Cys Thr Cys Val Pro Pro His Pro Gln Thr Ala Phe Cys Asn Ser Asp Leu Val Ile Arg Ala Lys Phe Val Gly Thr Pro Glu Val Asn Gln Thr Thr Leu Tyr Gln Arg Tyr Glu Ile Lys Met Thr Lys Met Tyr Lys Gly Phe Gln Ala Leu Gly Asp Ala Ala Asp Ile Arg Phe Val Tyr Thr Pro Ala Met Glu Ser Val Cys Gly Tyr Phe His Arg Ser His Asn Arg Ser Glu Glu Phe Leu Ile Ala Gly Lys Leu Gln Asp Gly Leu Leu His Ile Thr Thr Cys Ser Phe Val Ala Pro Trp Asn Ser Leu Ser Leu Ala Gln Arg Arg Gly Phe Thr Lys Thr Tyr Thr Val Gly Cys Glu Glu Cys Thr Val Phe Pro Cys Leu Ser Ile Pro Cys

Lys Leu Gln Ser Gly Thr His Cys Leu Trp Thr Asp Gln Leu Leu Gln

Gly Ser Glu Lys Gly Phe Gln Ser Arg His Leu Ala Cys Leu Pro Arg

Glu Pro Gly Leu Cys Thr Trp Gln Ser Leu Arg Ser Gln Ile Ala

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SEQUENCE VERIFICATION REPORT PATENT APPLICATION *US/08/884,073*

DATE: 12/17/97 TIME: 10:56:01

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Original Text